
Please read and understand this manual
before attempting installation of the product.

IP Camera

(SmartP2P)

NCM series

User manual

October 2014

Rev 1.2



Statement

If the user manual doesn't help you to resolve the problem, please call our technology center for technical support.

Notice

1、Installation Environment

- ✎ Keep away from the places for high-temperature, heat source and direct sunlight;
- ✎ Keep away from water and if wet, cut off the power immediately.
- ✎ Avoid using in a damp environment; the reference range for operation humidity is below 85%RH.
- ✎ Avoid using in too hot and too cold environment, the reference range for operation temperature is $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- ✎ Please install it horizontally or wall mount, avoid strenuous vibration and do not place other items on top of the unit.

2、Transport and Handling

- ✎ Please handle the item with care.
- ✎ Do not use in areas around condensation.
- ✎ Please disconnect the item from the mains before moving.



Notice:

1. Be careful not to damage the camera or subject it to strong impacts or shocks.
2. Do not touch the optical components for the image sensor, such as the lens, if necessary, please place a clean and moistened cloth with alcohol and wipe the dirt gently; When not in use, please place the dust cover on to the item to protect the image sensor.
3. Do not aim the camera directly into the sun or at other intense light sources that could affect the image quality, this will also shorten the service life for the image sensor.
4. Keep away from laser when it is working, otherwise the image sensor can be damaged.
5. If the equipment is not working properly, please contact the store or the service centre, do not disassemble or modify the equipment in any way.

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1. Product introduction


1.1. Product summary

Thank you for choosing this high definition SmartP2P IP Camera, the IP Camera combines a high definition digital video camera with network connectivity and a powerful web server to bring high definition video to your desktop from anywhere on your local network or over the Internet. It is very suitable for family, shops, office and so on.

Main features:

- ◆ Support Plug and Play function, view video via free iSmartviewPro mobile phone or PC client software.
- ◆ Support 3 kinds of H.264 video stream and 1 way MJPEG video stream simultaneously, suitable for Local, Internet and Cross-platform view;
- ◆ Support resolution for 1280*720/640*360/320*180;
- ◆ Support 4 ways view in a video stream;
- ◆ Support two-way intercom function, and G.711 and G.726 audio encoding;
- ◆ Support 802.11b/g/n protocol, build-in WiFi module to perform wireless monitoring;
- ◆ Support max. 32G SD/TF card for storing the alarm video and pictures, timing snapshot and recording;
- ◆ Built-in web server, use one port to send all the data, users can facilitates network setting;
- ◆ Support ONVIF and RTSP protocol, easy to integrate it to NVR or large client software;
- ◆ Support WPS/QSS function;
- ◆ Support POE function for some cameras, user optional;
- ◆ Support multi-languages web interface, support 1/4/9 split screen to perform several view at same time;
- ◆ Manufacturer puts a label of DDNS at the bottom of each IP Camera. When IP Camera is connected to the internet, this URL can be used to visit the device;
- ◆ Provide free client software, support Multi-view, Long time recording, video replay etc;

1.2. Package for typical production

Type	Accessory	Power adaptor	CD	Network Cable	Bracket	Stand of plastic	Antenna
 NCM620W		5V	√	√	√	√	√

 NCM621W	12V	√	√	√	√	√
 NCM622W	5V	√	√	√	√	√
 NCM623W	5V	√	√	√	√	-
 NCM624W	5V	√	√	√	√	√
 NCM625W	5V	√	√	√	√	√
 NCM626W	12V	√	√	-	√	√

 NCM627W	12V	√	√	-	√	-
 NCM628W	12V	√	√	√	√	√
 NCM629W	5V	√	√	√	√	-
 NCM630W	5V	√	√	√	√	-
 NCM631W	5V	√	√	√	√	√

Notice:

- ◆ If you choose IP camera with wireless function, so it includes wifi module inside the camera and antenna in package.
- ◆ Please check carefully if all listed items are included in the package, if anything missing, please contact vendor in time.

2. Installation and Operation Guide

2.1. View video by mobile phone software

You need to download and install iSmartviewPro mobile phone client software from attached CD, and then scan QR code on the camera body to add camera for viewing video, for detail, please see “Product Quick Application Guide”.

2.2. View video by wired connection in LAN

- Power on the IP camera ([please check carefully the voltage of power adaptor, don't insert incorrect power, otherwise it will be damaged](#)), connect IP camera to router by network cable and connect computer to the same router, example of figure 1.

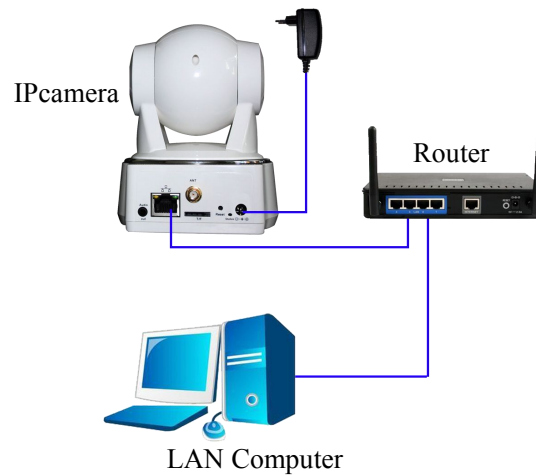


Figure 1

- Insert attached CD to computer driver, double click “H&MSearch_en.exe” in the CD, will pop up the interface as figure 2, please operate as the following steps:

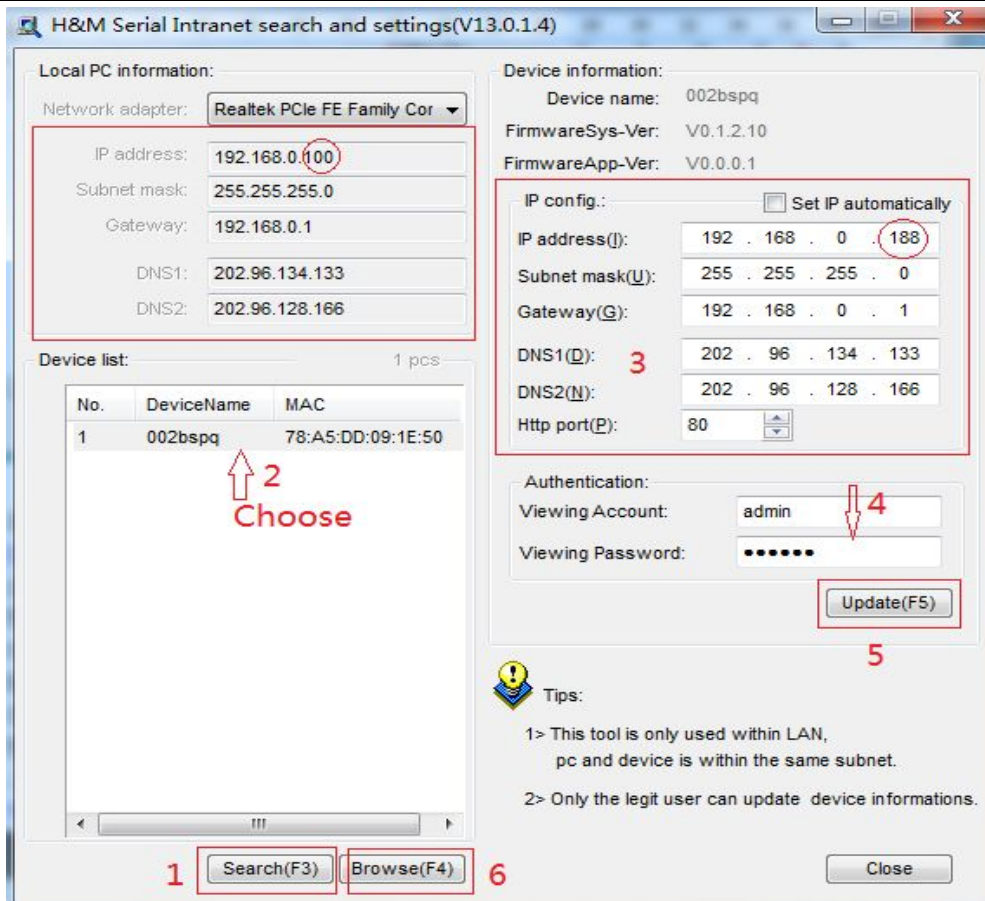


Figure 2

- 1) Click "Search" (Please make sure your firewall will not block up the item to be searched)
- 2) Choose a camera;
- 3) Change the ip address of the ip camera according to the information in the red frame on the left. The numbers in the red circle should not be the same. The Http port should be a number between 80~65535;
- 4) Enter user name and password for the device, the default is "admin" and "123456";
- 5) Click "update";
- 6) After updating successfully, click "Search (F3)", choose the device again and click "Browse (F4)". Then you can run the web browser, enter user name and password and login IP camera to view the video, example of figure 3. (please use IE browser at first time)

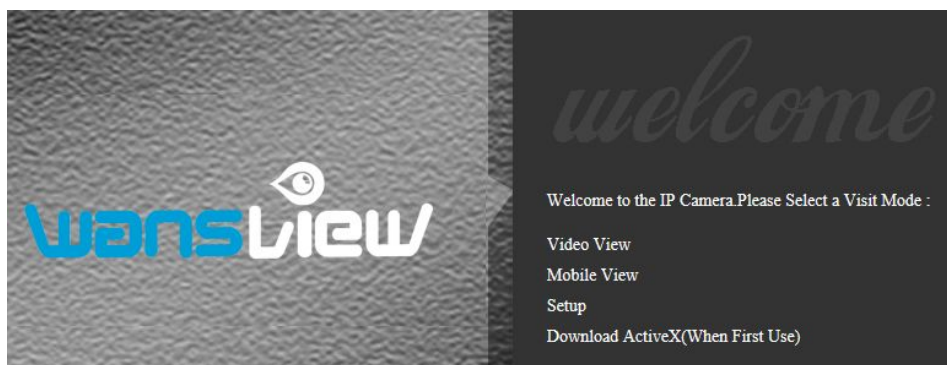


Figure 3

Notice: Need to download ActiveX when first use, click “download ActiveX(when first use)” in figure 3, will display prompt as figure 4, click ‘run’ will download and install the ActiveX automatically.



Figure 4

Tips: You can hold on reset button on the camera for 10 seconds to restore factory default if you forget user name and password, or not sure the device parameters.

- Click “Video View” in figure 3 to access video interface as below.



1) Status bar



Figure 4-1

- ① Display connection status;
- ② Display record status: if click “Record”, it will show “REC” which stands for

recording; click record button again, it will stop;

- ③ Zoom out, zoom in and restore digital zoom;
- ④ Set saving file path: set the location for recording and capturing file storage;
- ⑤ Talk button: Click this button to hear what the person at the side of computer talks. Click it again, it will stop playing;
- ⑥ Audio monitor button: Click this button to hear what people talking about at the side of IP Cameras,

2) Choose video stream


You can choose primary stream or second stream, third stream to view the video.


Recommend to view by primary stream in LAN, by second stream in WAN and by third stream in mobile phone.


You can view the video by four, nine pictures in same screen, but need to set the camera in 3.6.6 multiple setting.

3) PTZ control


If the camera supports PTZ function, you can click up, down, left, right arrow to control

the camera moving, click  button to center and stop the camera.

When you set camera to a preset position, and then click , after the camera is

changed to other direction, click  can move the camera to the position you have set.

4) Snap /record / SD card/playback

- ◆ Click “Snap” button, to save the picture to the specified file.
- ◆ Click “Record” button to start record. Click again to stop record.
- ◆ Click “Check TF/SD card” can browse the files in the SD card (If the SD card already inside the camera), you can select file to download it;
- ◆ Click “Playback” button, it will show a player which can play the record video.
For these buttons  means: play; stop; open video file; slow play; quick play.

2.3. View video by WiFi connection in LAN

After finishing the wired connection as chapter 2.2, you can connect the camera by WiFi.

Login camera in wired connection and enter wifi setting, and then operate as the following step, example of figure 5.

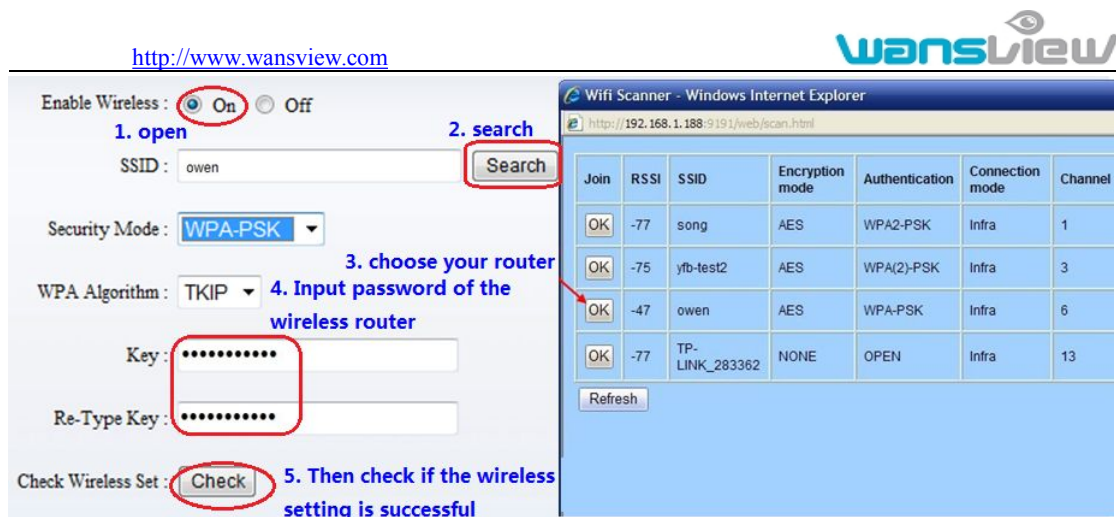


Figure 5

Select 'On' and click 'Search', and then select wireless router in pop up menu, click 'OK' and enter its password, click 'apply' to save the wireless settings. And you can click 'check' to check if the wireless setting is successful. After setting successfully, please pull out network cable and reboot the camera to use the wireless connection to view video.

Because the camera supports WPS/QSS, so you can set wireless by simple way as below.

- 1) Please confirm if the router connected to camera supports WPS/QSS (you can check user manual of the router or get the support from router factory);
- 2) Press WPS/QSS button on the router, it will launch the function.
- 3) Press and hold on reset button for 2~5 seconds after it ran normally (not need connect cable), it will launch the WPS/QSS function, then match the setting with the router, the status LED always on when it was matching, and it will flash after matching successfully.
- 4) Unplug power adaptor and reboot the camera, then you can use the wireless connect function.

Note: The camera will automatically stop the function when the matching is unsuccessful after continuing 50 seconds. Due to different kinds of the router, we don't sure our camera can be connected to all routers successfully.

2.4. View video in internet

You should connect your internal network to the internet first and configure port forwarding, consult your router's manual for further details, as figure 6.

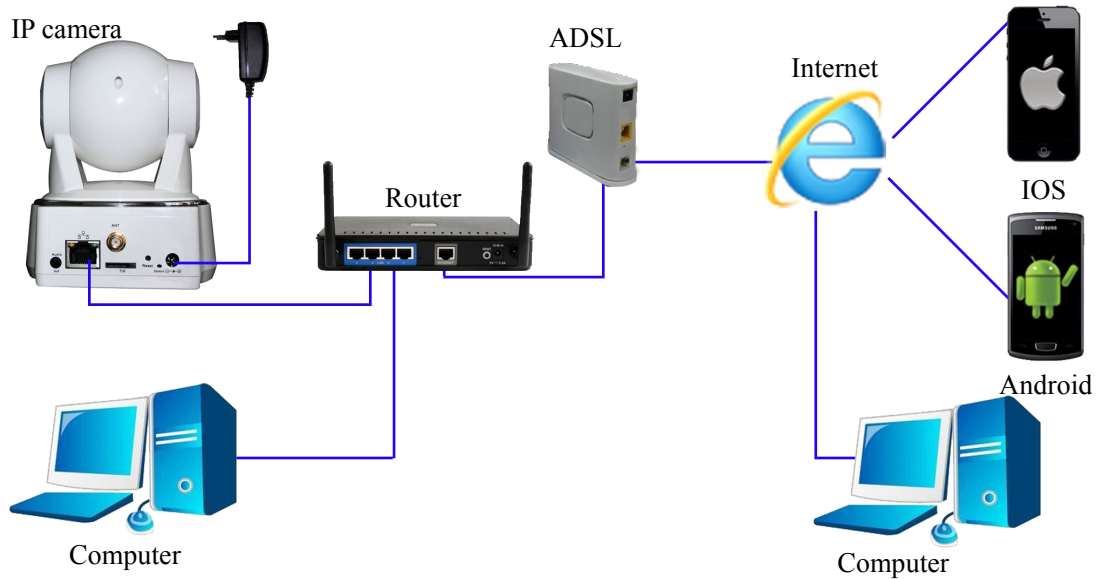


Figure 6

For example: operation step of port forwarding as figure 7.



Figure 7

- 1) Please go to the setting interface of Router, and choose "Port Forwarding";
- 2) Choose "Add custom Service" ;
- 3) Input IP camera http port;
- 4) Input LAN IP Address of the camera, click "Apply" (port number and IP address as you set in figure 2)

After finishing the port forwarding, you can use WAN IP address of router and http port of

camera to visit the camera by remote computer as figure 6.

Notice: because the routers are different, so the interface and setting method of router are also different, how to do the port forwarding for various routers, please refer to the user manual of your router or consult with router manufacturer.

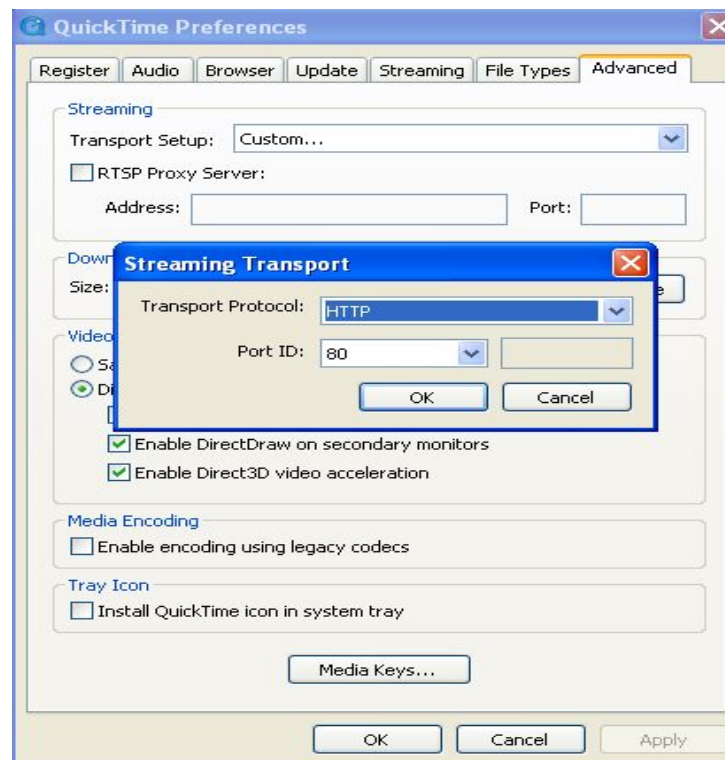
2.5. View Video by PC client software

You need to download and install iSmartViewPro PC client software from attached CD, and then add camera to view live video. For detail, please see the “User manual for iSmartViewPro”.

2.6. View Video by other way

2.6.1. Other Web Browser

In the Windows OS, for using browser with IE kernel, user must download the ActiveX. While for Safari and Firefox browsers, please download “QuickTime” plug-in and install it to access the IP camera. After installation, please run the QuickTime program to access the QuickTime Preferences dialog box from Edit Menu, example as below. Click “Advanced”, select “custom.” in the Transport Setup. It pops up the Streaming Transport dialog box. Please select “HTTP” for transport protocol and “80” as port ID, click “ok”, and then return to Transport Setup to change “Custom..” to “Auto”. Finally, click “ok” at the bottom. After finishing these settings, run the Firefox or Safari browser to view the video.



In Mac computer, the Quicktime is installed by default, so the user simply accesses setting tool folder at application folder and run the command program, enter command

by command line mode:

qtdefaults write TransportSettings HTTP 80

And then run the Safari browser to view the video.

Note: Please select the G.711 audio code format for hearing sound in Quicktime plug-in.

2.6.2. Other common software

As the device supports RTSP protocol, you can use VLC player to play IP Camera video.

It is compatible with VLC 1.1.12 version or above. Please use below URL to visit:

rtsp://ip:port/11 (View the video by first stream)

rtsp://ip:port/12 (View video by second stream)

rtsp://ip:port/13 (View video by third stream)

The port is RTSP port; please refer to the settings of Figure 13.

3. All settings

3.1. Video setting

In the setting, you can adjust the video, audio and image setting according to actual environment for getting best effect.

3.1.1. Video parameters

The screenshot shows the 'Video parameters' configuration window. It includes sections for 'First stream', 'Second stream', 'Third stream', 'JPEG Stream', and 'Overlay Options'. Red arrows and text provide explanations for specific settings:

- Power Line Frequency:** Set to 50Hz. Annotation: "If pictures have ripple, can adjust it to elimininate ripple here".
- First stream:**
 - Resolution:** 1280x720.
 - Bit Rate:** 4096 kbps. Annotation: "The bigger the bit rate , the video is more fluent , take up more bandwidth."
 - Frame Rate:** 25 fps.
- Second stream:**
 - Resolution:** 640x360.
 - Bit Rate:** 1024 kbps.
 - Frame Rate:** 25 fps. Annotation: "The higher the frame rate, the more smooth image."
- Third stream:**
 - Resolution:** 320x180.
 - Bit Rate:** 256 kbps.
 - Frame Rate:** 25 fps.
- JPEG Stream:**
 - Resolution:** 320x180.
- Overlay Options:**
 - Time Stamp:** On (selected). Annotation: "They will be displayed at monitoring image when selected 'on'".
 - Camera Name:** On (selected).
 - Name:** IP Camera.
 - Warning: "Don't input special characters like: ~!@#%&^&*()_+|=?:)"

Buttons for 'Apply' and 'Cancel' are at the bottom.

Figure 10

JPEG stream is for some views by non windows platform, for example, click 'mobile view' in first page, it will transmit JPEG stream actually.

3.1.2. Audio parameters

Audio Options

Input Volume : 65 (1-100)

Output Volume : 45 (1-100)

First stream

Audio Capture : ☒ On ☐ Off

Audio Type : G.711 **⇒ G.711 sound quality is good but takes up more bandwidth.**

Second stream

Audio Capture : ☒ On ☐ Off

Audio Type : G.726 **⇒ G.726 sound quality is worse but takes up less bandwidth.**

Third stream

Audio Capture : ☒ On ☐ Off

Audio Type : G.726

Apply Cancel

Figure 11

The camera supports G.711 and G.726 audio encoding format. The sound of the G.711 is better, but it occupies more bandwidth. If you click “On” of the audio capture, so it will transmit audio in corresponding video stream. Please open the audio here, should you hear the sound when clicking audio play button in figure 4-1.

3.1.3. Image parameters

Brightness : 130

Saturation : 70

Contrast : 7

☐ Flip ☐ Mirror

IR LED Control : ☒ Auto ☐ Close

Night Mode : ☐ On ☒ Off

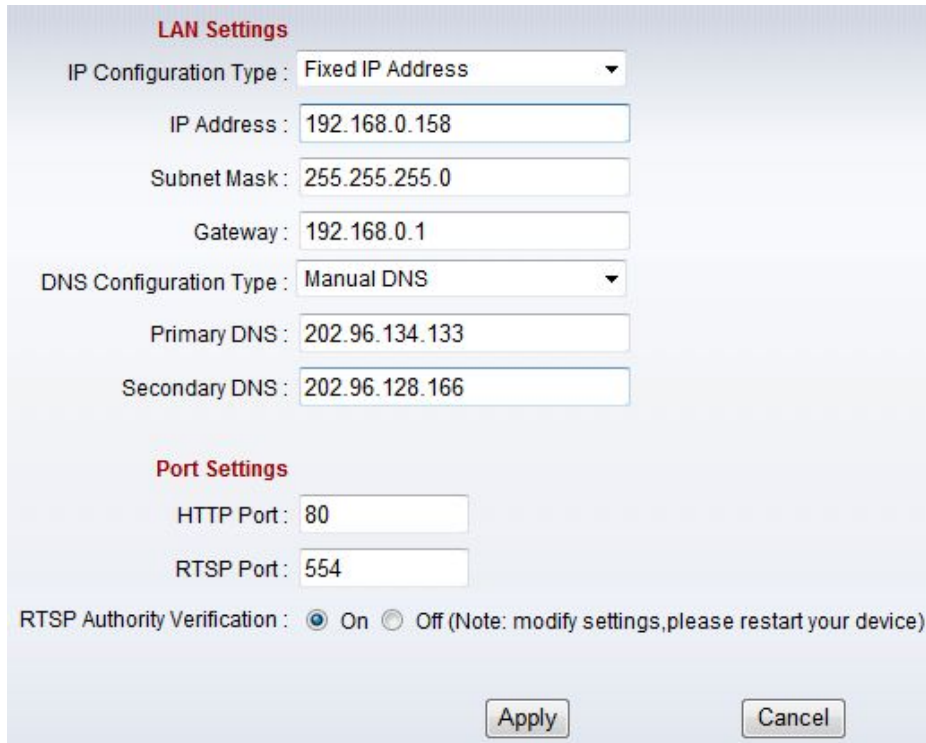
Apply Default Cancel

Figure 12

You can select “close” to disable IR LED when you don’t need it. At night mode, it will cut frame rate automatically to enhance night vision at night when you select “on”.

3.2. Web setting

3.2.1. Basic web setting



The image shows a web configuration interface for a camera. It is divided into two main sections: 'LAN Settings' and 'Port Settings'. Under 'LAN Settings', there are fields for 'IP Configuration Type' (set to 'Fixed IP Address'), 'IP Address' (192.168.0.158), 'Subnet Mask' (255.255.255.0), 'Gateway' (192.168.0.1), 'DNS Configuration Type' (set to 'Manual DNS'), 'Primary DNS' (202.96.134.133), and 'Secondary DNS' (202.96.128.166). Under 'Port Settings', there are fields for 'HTTP Port' (80) and 'RTSP Port' (554). At the bottom, there is a 'RTSP Authority Verification' section with radio buttons for 'On' (selected) and 'Off', followed by a note: '(Note: modify settings, please restart your device)'. At the very bottom are 'Apply' and 'Cancel' buttons.

Figure 13

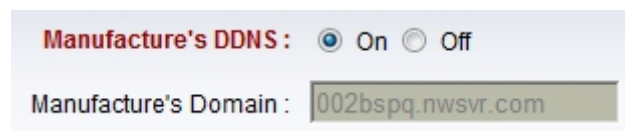
The cameras support RTSP protocol, if select “on” of “RTSP authority verification”, you need to enter user name and password when invoke video by RTSP protocol.

3.2.2. WIFI setting

Please refer to chapter 2.3.

3.2.3. WAN access setting

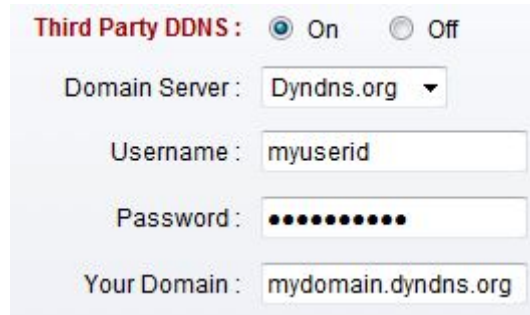
In chapter 2.3, you have known how to do port forwarding. After the success of the port forwarding, you can also visit camera by DDNS. The manufacturer has established a DDNS system, and allotted a DDNS to every device, the user can view it from remote PC, example of figure 14.



The image shows a small section of the web configuration interface for DDNS settings. It has a title 'Manufacture's DDNS :'. Below the title are two radio buttons: 'On' (selected) and 'Off'. Below that is a text field labeled 'Manufacture's Domain :'. The text field contains the value '002bspq.nwsvr.com'.

Figure 14

User can also use third party DDNS, such as www.dyndns.com. User applies a free domain name from this website and fills the info into below blanks (Figure 15) and saves the settings. Then the domain name can be used.



Third Party DDNS : ☒ On ☐ Off

Domain Server :

Username :

Password :

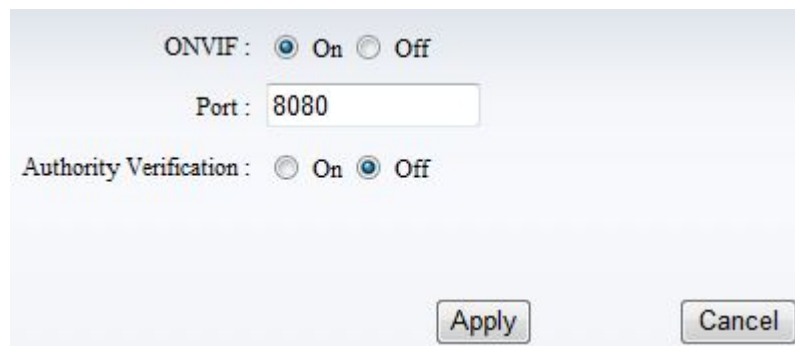
Your Domain :

Figure 15

Notice: Using the third party DDNS, if the http port is not 80, the port number should be adding to the domain name with colon.

Example: <http://mydomain.dyndns.org:81>.

3.2.4. ONVIF setting



ONVIF : ☒ On ☐ Off

Port :

Authority Verification : ☐ On ☒ Off

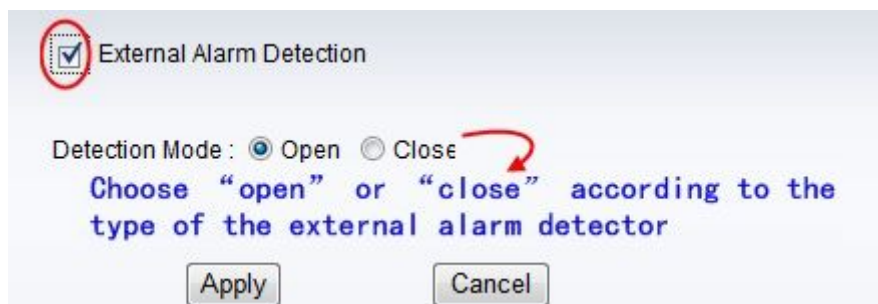
Figure 16

The camera supports ONVIF protocol, so it can be interconnected with other factory camera with ONVIF.

Tips: The device supports ONVIF 2.0.1 at present.

3.3. Alarm setting

3.3.1. External Alarm Input



☒ External Alarm Detection

Detection Mode : ☒ Open ☐ Close

Choose "open" or "close" according to the type of the external alarm detector

Figure 17

The camera should have external alarm input port for enable this functions. Connect external alarm detector to the input port, the detector will output switching signal when it detects any abnormal, input port of the camera will detect the level change, so it will detect the alarm, therefore the detector should be switching sensor (same as switch)

3.3.2. Motion Detection Setting

Click SYSTEM SET->>ALARM->>Motion Detection to access setting interface as figure 18, you can set up detect window here, tick a window, the corresponding green frame of motion detection window is displayed, you can tick four windows maximum for motion detection area as below.

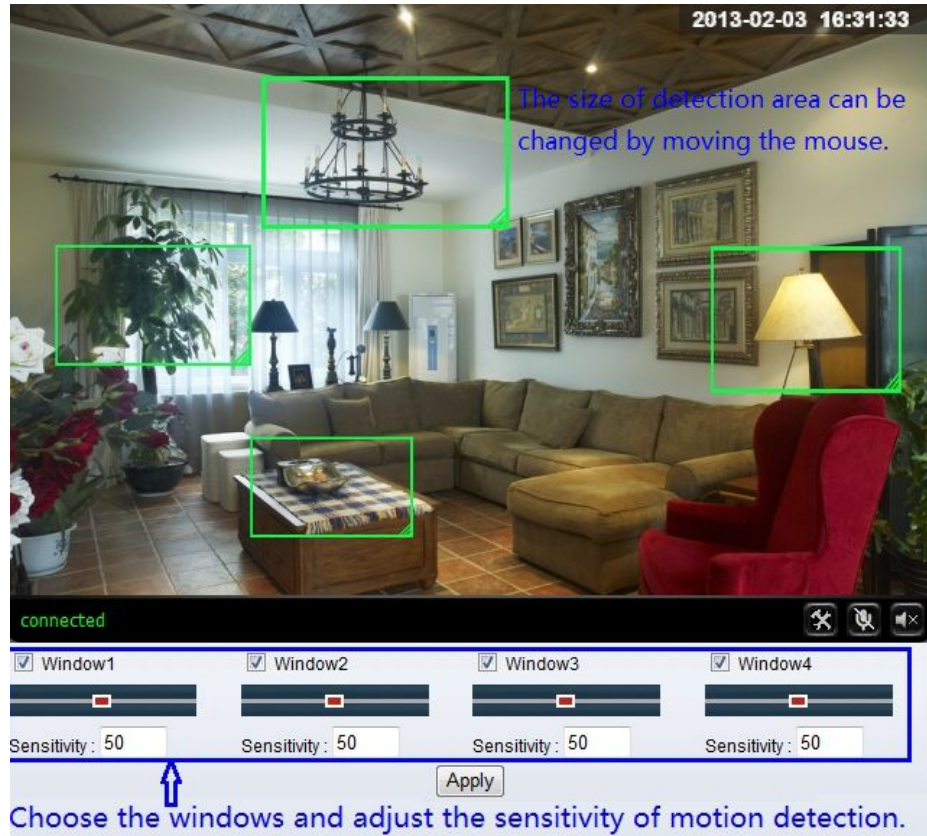


Figure 18

Please click “apply” after finishing the settings, and motion detection takes effect. The higher value, the higher sensitivity. The camera will trigger corresponding alarm when any change occurs in the detection area.

3.3.3. Alarm mode setting

After camera detects any change, it will alarm as several mode, example of figure 18.

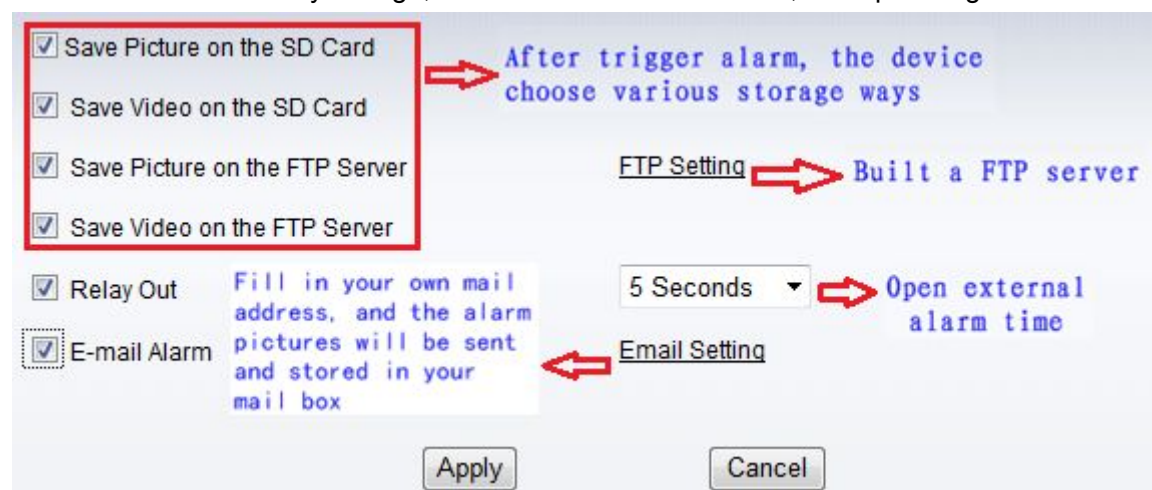


Figure 19

3.3.4. Alarm time setting

Click SYSTEM SET->> ALARM->>Schedule to access it.

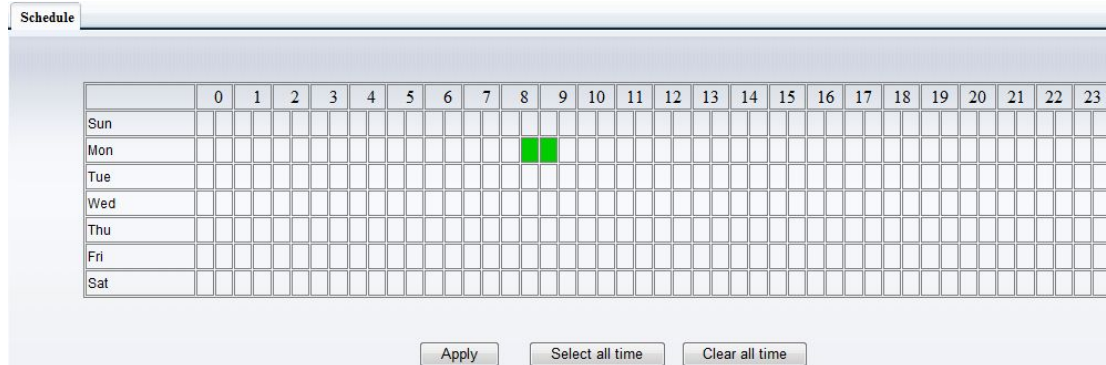


Figure 20

The device will trigger the alarm only during the scheduled time period, you can select the scheduled time according to your request. Example of figure 20, set armed time from Mon 8:30 to 9:30, you only need to click the corresponding time block to set them, the time block will become green when you selected.

Note: Please make sure your system time is correct before you set the alarm time period. Please refer to chapter 3.5.2 to set system time.

3.4. Advance setting

3.4.1. User management

Click SYSTEM SET->>ADVANCED->>User to access it.

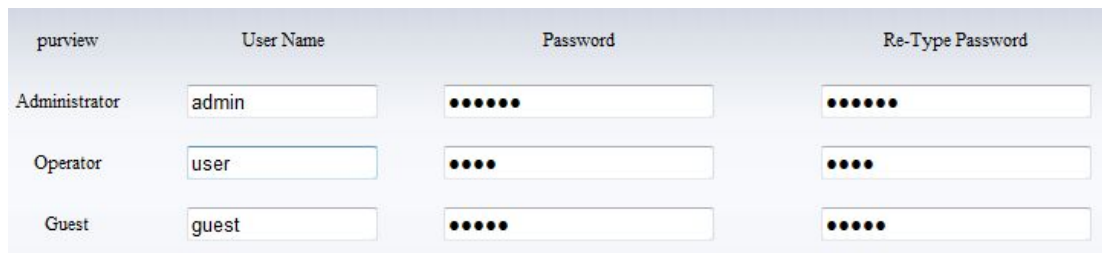


Figure 21

There are 3 levels of user authorization in it.

- ◆ Administrator: “admin” has the highest authority. It can do any settings. [The factory default password: 123456.](#)
- ◆ User: user can only operate the device but can’t do any settings. [The default password is user.](#)
- ◆ Guest: User can view the video, but can’t operate the device. [The default password is guest.](#)

Note: Please change these 3 level passwords when your first use to ensure your safety.

3.4.2. Auto Capture Setting

Click SYSTEM SET->>ADVANCED->> Auto Capture to access it.

TF/SD Card Interval : 60 Seconds

☒ Save Images To the TF/SD Card

FTP Interval : 60 Seconds

☐ Save Images To an FTP Server [FTP Setting](#)

Apply Cancel

Figure 22

Tick “Save Images to the TF/SD card”, the snap pictures will be stored into SD card during the setting time.

3.4.3. Timer recording

Click SYSTEM SET->>ADVANCED->> Record to TF/SD to access it.

Record To TF/SD : ☒ On ☐ Off

Record Files Duration : 600 Seconds

Stream : First stream

Schedule Record Time : Select all time Clear all time

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sun																								
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								

Apply Refresh

Figure 23


For example, set up recording time from Mon 8:30 to 9:30 as figure 23.

Tips:

Please insert TF/SD card when the device power off, to avoid damage the TF/SD card or not to read it from the device.

3.4.4. E-mail Setting

Click SYSTEM SET->>ADVANCED->>Email to access it.




The image shows a web-based configuration form for SMTP settings. At the top, there's a header with the URL 'http://www.wansview.com' and the 'wansview' logo. The form itself has a light blue background. It contains several input fields and checkboxes. The 'SMTP Server Name' field is filled with 'smtp.sohu.com'. The 'Server Port' is set to '25'. There is an 'SSL' checkbox which is unchecked. Below these, there are radio buttons for 'Authentication', with 'On' selected. The 'User Name' field contains 'sender@sohu.com'. The 'Password' field is masked with dots. The 'Send To' section has three input fields; the first is filled with 'receive@163.com' and labeled '(e-Mail Address 1)'. The other two are empty and labeled '(e-Mail Address 2)' and '(e-Mail Address 3)'. The 'Sender' field is filled with 'sender@sohu.com' and labeled '(Return e-Mail address)'. The 'Subject' field is filled with 'alarm'. The 'Message' field is a large text area, currently empty. Below the message field, a note states '(The maximum length of 255 Characters)'. At the bottom, there is a 'Test Email settings' section with a 'Test' button and a message: 'Please set parameters at first, and then test it.'

Figure 24

The SMTP server name: It is mailbox server, for example of SOHU mailbox, it is "smtp.sohu.com". Please fill all blanks which we filled above in figure 24 as example. Otherwise, the settings will fail.
Please click "Test" to test if the E-mail setting is successful.

3.4.5. FTP setting

Click SYSTEM SET->>ADVANCED->>FTP to access it.



The image shows a web-based configuration form for FTP settings. It has a light blue background. The 'Server Address' field is filled with '192.168.0.152'. The 'Server Port' is set to '21'. The 'User Name' field contains 'test'. The 'Password' field is masked with dots. The 'Path' field is filled with './'. Below these, there are radio buttons for 'Passive Mode', with 'On' selected. At the bottom, there is a 'Test FTP Settings' section with a 'Test' button and a message: 'Please set parameters at first, and then test it.' Below this, there are two buttons: 'Apply' and 'Cancel'.

Figure 25

Before to use FTP function, please get the following ready.

- 1) FTP user name and password
- 2) FTP storage space and the authority
- 3) Create sub-category to store the video or pictures.

Notice: The password should not be special character; otherwise the camera can't

identify it.

3.4.6. Multiple settings

Click SYSTEM SET->>ADVANCED->>Multiple Settings to access it.

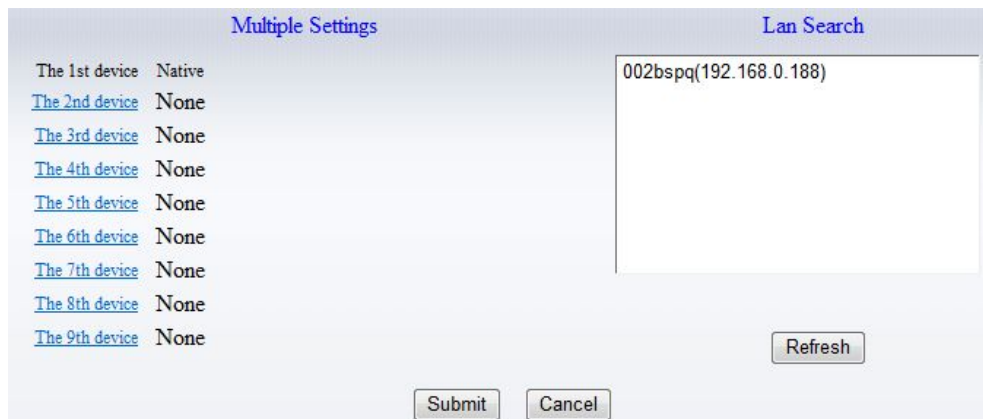


Figure 26

Please set multiple devices here first to view 4 or 9 split screen at chapter 3.1 browse interface.

3.5. System setting

3.5.1. Device information

Click SYSTEM SET->>SYSTEM->>Device Information to access it.

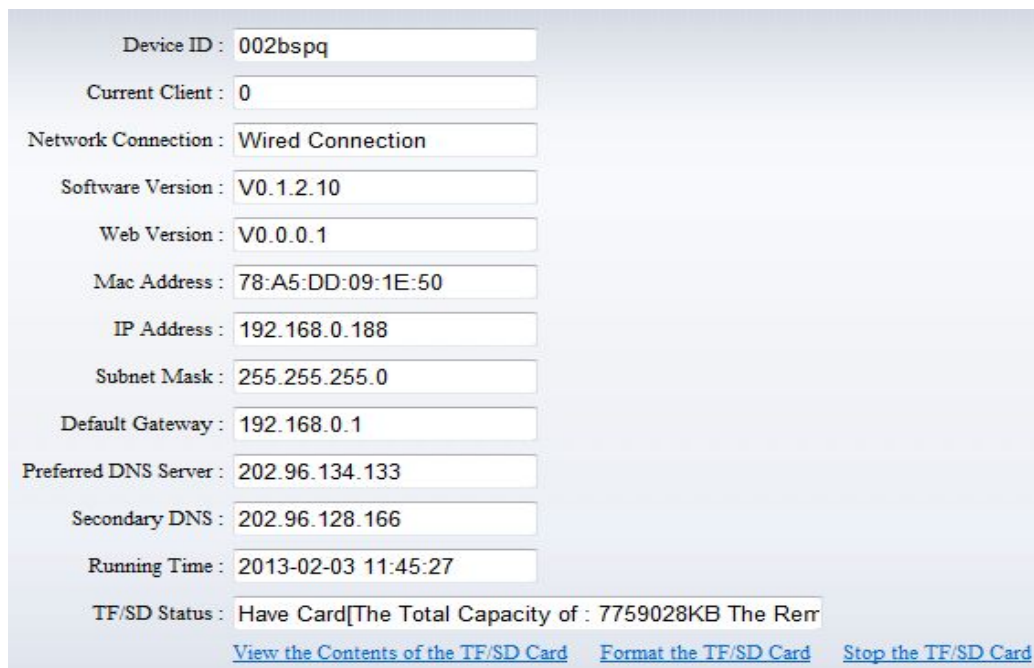


Figure 27

SD status shows the free capacity if SD card is installed.

Notice: the device supports max 32G SD card. Please format the SD card to FAT32 before use the card on camera. Please check if the SD Card matches the camera or not before purchasing the SD Card.

3.5.2. Date and time setting

Click SYSTEM SET->>SYSTEM->>Time Settings to access it.



Current Date & Time : 2013-01-18 12:53:18

Network Time Protocol ☒

NTP Server : time.windows.com

Time Zone : (GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi


Sync With Computer Time Apply

Figure 28

Example of figure 28, please select the time zone at first and then select a NTP server and obtain time from network time server.

3.5.3. Initialize setting

Click SYSTEM SET->>SYSTEM->>Initialize to access it.



Reboot Camera : Confirm

Restore Factory Default : Confirm

Backup Settings Data : Confirm

Restore Settings Data : Browse Confirm

Firmware Upgrade : Browse Confirm

Figure 29

If you click “Confirm” of Backup setting data, the camera will create a file, you can store it to your computer, and you can directly call this file to restore the settings. The function helps to manage the cameras and no need to do all the settings again.

The firmware upgrade is for updating system firmware and web UI.

3.5.4. System Log

Click SYSTEM SET->>SYSTEM->>System Log to access it.

```
System Log
[2013_01_17 20:36:23] ipc_server start.
[2013_01_18 10:52:00] user(admin) login for live stream.
[2013_01_18 11:02:43] user(admin) logout from live stream.
[2013_01_18 11:03:09] user(admin) login for live stream.
[2013_01_18 11:04:17] user(admin) logout from live stream.
[2013_01_18 11:06:42] user(admin) login for live stream.
[2013_01_18 11:08:12] user(admin) logout from live stream.
[2013_01_18 12:38:21] user(admin) login for live stream.
[2013_01_18 12:39:15] user(admin) logout from live stream.
```

Figure 30

4. Product family for SmartP2P camera

4.1. HD PTZ Camera NCM620W

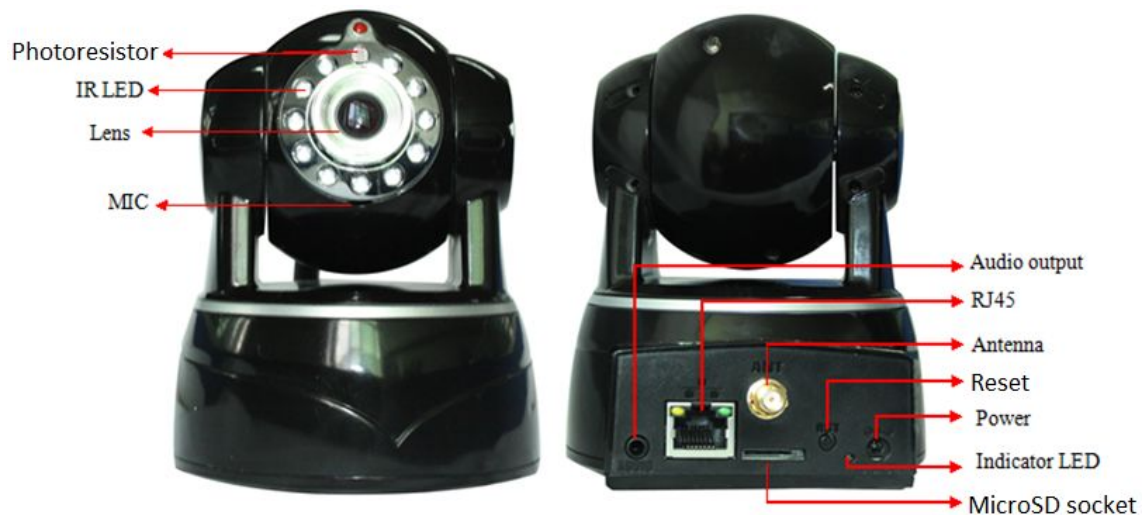


Figure 31

The camera features:

- Max. resolution is 720P, support two way intercom, build in MIC;
- Build in WIFI module, support 802.11b/g/n, easy for connecting wireless router;
- Support rotate 290° horizontally and 120° vertically;
- Build in IR-CUT, 3.6mm lens;
- 11 pcs IR LED, up to 8 meter night vision;
- Micro SD card socket for recording storage
- Work status LED indicate:
 - Flash normally (1 time per second) means the device runs normally, it means the camera was connected to wired network
 - Always on, it means the camera is searching WPS
 - Flash very fast (3 times per second) it means the camera was connected to wireless network

4.2. HD waterproof camera NCM621W



Figure 32

The camera features:

- Max. resolution is 720P;
- Build in WIFI module, support 802.11b/g/n, easy for connecting wireless router;
- Build in IR-CUT, 8mm lens;
- 36pcs IR LED, up to 25 meter night vision;
- Micro SD card socket for recording storage
- Support waterproof level IP66 for outdoor use.

4.3. HD PTZ Camera NCM622W



Figure 36

The camera features:

- 5) Max. resolution is 720P, support two way intercom, build in MIC, and Speaker;
- 6) Build in WIFI module, support 802.11b/g/n, easy for connecting wireless router;
- 7) Support rotate 290° horizontally and 120° vertically;

- 8) IR_CUT, 3.6mm lens;
- 9) 10 pcs IR LED, up to 6 meter night vision;
- 10) Micro SD card socket for recording storage
- 11) Work status LED indicate:
 - 5) Flash normally (1 time per second) means the device runs normally, it means the camera was connected to wired network
 - 6) Always on, it means the camera is searching WPS
 - 7) Flash very fast (3 times per second) it means the camera was connected to wireless network

4.4. HD Cube Camera NCM623W



Figure 34

The camera features:

- Max. resolution is 720P, support two way intercom, build in MIC;
- Build in WIFI module, support 802.11b/g/n, easy for connecting wireless router;
- Build in IR-CUT, 3.6mm lens;
- 12pcs IR LED, up to 8 meter night vision;
- Built-in Micro SD card socket
- Work status LED indicate:
 - Flash normally (1 time per second) means the device runs normally, it means the camera was connected to wired network
 - Always on, it means the camera is searching WPS
 - Flash very fast (3 times per second) it means the camera was connected to wireless network

4.5. HD PTZ Camera NCM624W

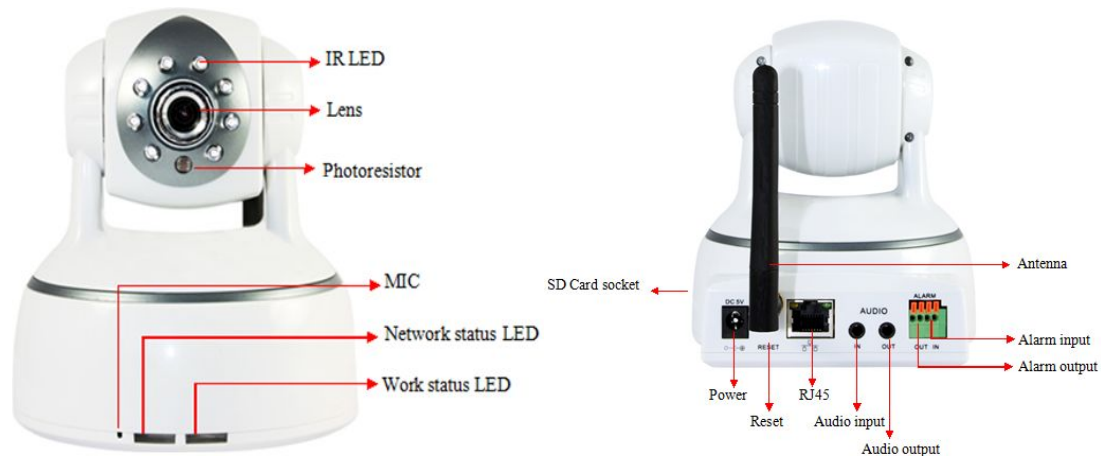


Figure 35

The camera features:

- Max. resolution is 720P, support two way intercom, build in MIC;
- Build in WIFI module, support 802.11b/g/n, easy for connecting wireless router;
- Support rotate 350° horizontally and 100° vertically;
- Build in IR-CUT, 3.6mm lens;
- 8 pcs IR LED, up to 5 meter night vision;
- Alarm in/out for external alarm system connection;
- SD card socket for recording storage;
- Work status LED indicate:
 - Flash normally (1 time per second) means the device runs normally, it means the camera was connected to wired network
 - Always on, it means the camera is searching WPS
 - Flash very fast (3 times per second) it means the camera was connected to wireless network

4.6. HD PTZ Camera NCM625W

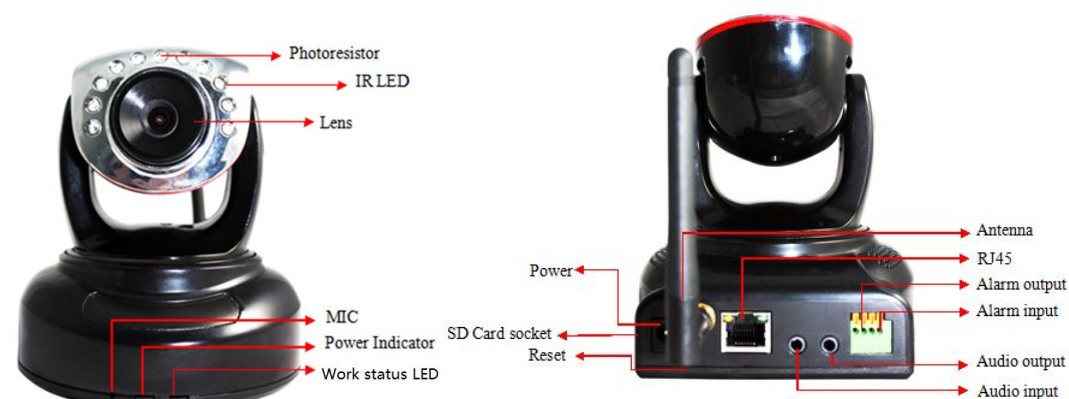


Figure 36

The camera features:

- Max. resolution is 720P, support two way intercom, build in MIC;
- Build in WIFI module, support 802.11b/g/n, easy for connecting wireless router;

- Support rotate 340° horizontally and 90° vertically;
- Build in IR-CUT, 3.6mm lens;
- 10 pcs IR LED, up to 6 meter night vision;
- Alarm in/out for external alarm system connection;
- SD card socket for recording storage;
- Work status LED indicate:
 - Flash normally (1 time per second) means the device runs normally, it means the camera was connected to wired network
 - Always on, it means the camera is searching WPS
 - Flash very fast (3 times per second) it means the camera was connected to wireless network

4.7. Outdoor HD Waterproof PTZ camera NCM626W



Figure 37

The camera features:

- Max. resolution is 720P;
- Build in WIFI module, support 802.11b/g/n, easy for connecting wireless router;
- Support rotate 350° horizontally and 90° vertically;
- Use IR-CUT filter, can change IR and color filter, 4mm Lens;
- 22pcs IR LED, up to 20 meters night vision;
- Build in TF card slot, can insert TF card to it and record video to TF card when detecting alarm;
- Support waterproof level IP53 for outdoor use;

4.8. HD hemisphere Camera NCM627



Figure 38

The camera features:

- Max. resolution is 720P;
- Ceiling installation;
- Use IR-CUT filter, can change IR and color filter, 4mm Lens;
- Build in 30pcs IR LED, up to 25 meters night vision;
- Support to power off IR LED manually.

4.9. HD Waterproof Camera NCM628W



Figure 39

The camera features:

- Max. resolution is 720P;
- Build in IR-CUT, 3.6mm lens;
- Build in 2pcs array IR LED, up to 15 meter night vision;

- Support waterproof level IP66 for outdoor use.

4.10. HD Cube Camera NCM629W



Figure 41

- Max. resolution is 720P, support two way intercom, build in MIC and speaker;
- Build in WIFI module, support 802.11b/g/n, easy for connecting wireless router;
- Build in IR-CUT, 3.6mm lens;
- 8pcs IR LED, up to 5 meter night vision;
- Built-in Micro SD card socket
- Work status LED indicate:
 - Flash normally (1 time per second) means the device runs normally, it means the camera was connected to wired network
 - Always on, it means the camera is searching WPS
 - Flash very fast (3 times per second) it means the camera was connected to wireless network

4.11. HD PTZ Camera NCM630W



Figure 42

- Max. resolution is 720P, support two way intercom, build in MIC and audio out;
- Build in WIFI module, support 802.11b/g/n, easy for connecting wireless router;
- Build in IR-CUT, 3.6mm lens;
- 11pcs IR LED, up to 8 meters night vision.
- Build in TF card slot, can insert TF card to it and record video to TF card when detecting alarm.

Note: the reset button is placed on the bottom of device.

4.12. HD PTZ Camera NCM631W



Figure 43

The camera features:

- Max. resolution is 720P, support two way intercom, build in MIC and Speaker;
- Build in WIFI module, support 802.11b/g/n, easy for connecting wireless router;
- Build in PIR sensor, support motion detection;
- Support rotate 350° horizontally and 90° vertically;
- IR_CUT, 3.6mm lens;
- 12 pcs IR LED, up to 8meter night vision;
- Micro SD card socket for recording storage
- Work status LED indicate:
 - Flash normally (1 time per second) means the device runs normally, it means the camera was connected to wired network
 - Always on, it means the camera is searching WPS
 - Flash very fast (3 times per second) it means the camera was connected to wireless network

Statement:

1. This manual may be different with your using camera, if you have any questions of the manual, please contact our technical support.
2. This manual will be updated periodically; the company reserved the right without prior notice.